The demand must be filed directly with the competent International Preliminary Examining Authority or, if two or more Authorities are comwith the one chosen by the applicant. The full name or two-letter code of that Authority may be indicated by the applicant on the line below

TPEA/JE



CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty.

Fo	r International Prelimina	ry Examining Authori	ty use only		
Identification of IPEA	,	Date of receipt of DEMAND			
Box No. I IDENTIFICATION OF T	THE INTERNATIONAL	-	Applicant's or agent's file reference 10003610WO01		
International application No. PCT/JP2004/017042	International filing date		(Earliest) Priority date (day/month/year) 19/11/2003		
Title of invention PHOTOELECTRIC CONVERT	ING APPARATUS				
Box No. II APPLICANT(S)	-				
Name and address: (Family name followed by The address must include p		full official designation.	Telephone No. 03-3758-2111		
CANON KABUSHIKI KAISH	Α		Facsimile No. 03-3756-0947		
3-30-2, Shimomaruko, Ohta-	ku, Tokyo 146-8	501 Japan	Teleprinter No.		
	. •		Applicant's registration No. with the Office		
State (that is, country) of nationality: JAPAN		State (that is, count JAPAN	ry) of residence:		
Name and address: (Family name followed by g KAMESHIMA, Toshio c/o CANON KABUSHIKI KA 3-30-2, Shimomaruko, Ohta-	ISHA		address must include postal code and name of country.)		
State (that is, country) of nationality: JAPAN		State (that is, countr JAPAN	7)) of residence:		
Name and address: (Family name followed by g	iven name; for a legal entity, fu	ll official designation. The	oddress must include postal code and name of country.)		
State (that is, country) of nationality:		State (that is, country)	of residence:		
Further applicants are indicated on a	continuation sheet.		-		

Form PCT/IPEA/401 (first sheet) (January 2004)

See Notes to the demand form

Sheet No.	2
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International application No. PCT/JP2004/017042

Box No. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE							
The following person is agent common representative							
and kas been appointed earlier and represents the applicant(s) also for international preliminary examination.							
is hereby appointed and any earlier appointment of (an) agent(s)/common representative is hereby revoked.							
is hereby appointed, specifically for the procedure before the International Prelim the agent(s)/common representative appointed earlier.	inary Examining Authority, in addition to						
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	Telephone No.						
positi ode ana nane oj cominje,	03-3213-1561 Facsimile No.						
Patent Attorney KATO, Nobuaki	03-3214-0929						
	Teleprinter No.						
No. 602, Fuji Bldg., 2-3, Marunouchi 3-chome,	_						
Chiyoda-ku, Tokyo 100-0005 Japan	Agent's registration No. with the Office						
Address for company and a got Mark this shock has whom as court assumed	our contestive in the hear experienced and the						
Address for correspondence: Mark this check-box where no agent or common to space above is used instead to indicate a special address to which correspondence	should be sent.						
Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION							
Statement concerning amendments:*							
1. The applicant wishes the international preliminary examination to start on the basis of							
the international application as originally filed							
the description as originally filed							
as amended under Article 34	·						
the claims as originally filed							
as amended under Article 19 (together with any accompanyin	g statement)						
as amended under Article 34							
the drawings X as originally filed							
as amended under Article 34							
2. The applicant wishes any amendment to the claims under Article 19 to be conside	ered as reversed						
3. The applicant wishes the start of the international preliminary examination to							
applicable time limit under Rule 69.1(d). 4. The applicant expressly wishes the international preliminary examination to s							
applicable time limit under Rule 54bis.1(a).							
* Where no check-box is marked, international preliminary examination will start on as originally filed or, where a copy of amendments to the claims under Article 19 and/or a under Article 34 are received by the International Preliminary Examining Authority befor or the international preliminary examination report, as so amended.	mendments of the international application						
Language for the purposes of international preliminary examination: English							
which is the language in which the international application was filed.							
which is the language of a translation furnished for the purposes of internation	nal search.						
which is the language of publication of the international application.							
which is the language of the translation (to be) furnished for the purposes of	international preliminary examination.						
	·						
Box No. V ELECTION OF STATES							
The filing of this demand constitutes the election of all Contracting States which are designed.	mated and are bound by Chapter II of the						

	Sheet No. 3			International application No. PCT/JP2004/017042		
Box No. VI CHECK LIST				,	-	
The demand is accompanied by the following e Box No. IV, for the purposes of international p			d to in		nal Preliminary thority use only not received	
1. translation of international application	:		sheets		. 🗆	
2. amendments under Article 34	: .	. 5	sheets			
copy (or, where required, translation) of amendments under Article 19	. :	\$	sheets			
copy (or, where required, translation) of statement under Article 19	:	\$	sheets			
5. letter	:	2 s	sheets			
6. other (specify)	:	5	sheets			
The demand is also accompanied by the item(s) n	arked below:					
1. fee calculation sheet	:		-	ining lack of signatu		
2. original separate power of attorney 3. original general power of attorney			_	in computer readabl ter readable form rel		
4. copy of general power of attorney;		sequ	ænce listing	; -		
reference number, if any:	-	8. 🔀 othe	τ (specify):	Revenue stamps paid to deposit a	s, Receipt of fees ecount of WIPO	
Box No. VII SIGNATURE OF APPLICANT,						
Next to each signature, indicate the name of the person signi	ng and the capacity	y in which the pers	on signs (if suc	h capacity is not obvious	from reading the demand).	
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KATO, Nobuaki	学が整定					
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·		•				
For Internation	onal Preliminar	y Examining A	uthority use	only	·	
1. Date of actual receipt of DEMAND:						
Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):						
3. The date of receipt of the demand is expiration of 19 months from the prior item 4 or 5, below, does not apply.		ه لـا "	expiration of	receipt of the dem the time limit under below, does not appl	Rule 54 <i>bis</i> .1(a) and	
The applicant has been informed	accordingly.	7.	The date of re imit under I	sceipt of the demand Rule 54 <i>bis</i> , 1(a) as ex	is WITHIN the time trended by virtue of	
4. The date of receipt of the demand is WITI limit of 19 months from the priority date by virtue of Rule 80.5.		I	Rule 80.5.		e demand is after the	
Although the date of receipt of the demand expiration of 19 months from the prior delay in arrival is EXCUSED pursuant.	rity date, the		xpiration of		Rule 54bis.1(a), the	
	For Internation	al Bureau use o	nly			
Demand received from IPEA on:						
Form PCT/IPEA/401 (last sheet) (January 2004)				Soo No	otes to the demand form	

REPLY



To: Examiner of the Patent Office

1. Identification of the International Application
PCT/JP2004/017042

2. Applicant

Name: CANON KABUSHIKI KAISHA

Address: 3-30-2, Shimomaruko, Ohta-ku, Tokyo.

146-8501 Japan

Country of Nationality: JAPAN

Country of Residence: JAPAN

3. Agent

Name: KATO, Nobuaki



Address: No. 602, Fuji Bldg., 2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo 100-0005 Japan

4. Date of Notification: 08.03.2005

5. Subject Matter of Reply:

Amended claims are filed separately pursuant to Article 34 of PCT. The amended claims have been supported by a disclosure in Embodiments 3-5 and in Figs. 5-8. In the amended claims, it has been made clear that a photoelectric converting apparatus according to the present invention comprises a pixel comprising a photoelectric

converting element (an amorphous semiconductor), a readout TFT of source follower type, a reset TFT and a selecting TFT; a signal line connected to the pixel, a reading circuit connected to the signal line; and a constant current source provided at a position spaced from the reading circuit rather than the pixel.

It is to be understood, by the above claim amendments could make clear that, according to the present invention, "a constant current source is provided at a position on a signal line spaced from a readout circuit rather than the pixel (on an insulating substrate)", thereby ", even though a resistance component is contained in the common signal line, preventing a voltage drop, due to the resistance component, in a signal output read out by a readout circuit 3,"as a significant special advantage of the present invention. Please refer to a description of an advantage in the Embodiment 3.

While, referring to the documents cited in an International Search Report, none of the cited documents discloses or suggests the above special feature of the present invention "the constant current source is provided at the position on the signal line spaced from the readout circuit rather than the pixel (on the insulating substrate)". Accordingly, none of the cited documents provides the above described special advantage of the present invention ", even though the resistance component is contained in the common signal line, preventing the voltage drop, due to the resistance component, in the signal output read out by the readout circuit 3". In particular, the above described special advantage would be made more significant in case of a two dimensional matrix array of the plurality of pixels since the resistance of the signal lines would be larger in such case.

AMENDMENT

PCT 2 0. 9, 05 受領印

(amendment base upon the provision of Article 11 of said Law)

To: Examiner of the Patent Office

1. Identification of the International Application

PCT/JP2004/017042

2. Applicant

Name: CANON KABUSHIKI KAISHA

Address: 3-30-2, Shimomaruko, Ohta-ku, Tokyo 146-8501 JAPAN

Country of Nationality: JAPAN

Country of Residence: JAPAN

3. Agent

Name: (8517) Patent Attorney

KATO, Nobuaki



Address: No. 602, Fuji Bldg., 2-3, Marunouchi 3-chome,

Chiyoda-ku, Tokyo 100-0005 JAPAN

4. Item to be amended: Claims

5. Subject Matter of Amendment:

Revise claims 1, 4 to 6, 8-13, 15 and 16 and add new claim 17 as shown in the attached claim sheet, cancel claims 2 and 3, and claims 7 and

14 are unchenged

6. List of Attached Documents:
Replacement sheets of pages 27, 28, 29, 30 and 31

CLAIMS

- (Amended) A photoelectric converting apparatus, on an insulating supporting substrate, comprising:
- a pixel comprising a photoelectric converting element, a resetting transistor wherein one of a source and a drain is connected to said photoelectric converting element, and the other of the source and the drain is connected to a resetting power source, a readout transistor wherein a gate is connected to said photoelectric converting element and wherein one of a source and a drain is connected to a readout power source, and a selecting transistor connected to the other of the source and the drain of said readout transistor;

a signal line connected to said pixel; and constant current source connected to said signal line and,

readout means connected to said signal line, wherein said constant current source is provided at a position on said signal line spaced from said readout means.

- 2. (cancelled)
 - 3. (cancelled)
- 4. (Amended) A photoelectric converting apparatus according to claim 1, wherein said readout means includes an amplifier connected to said signal

line and an analog multiplexer connected to said. amplifier.

- 5. (Amended) A photoelectric converting apparatus according to claim 4, wherein said analog multiplexer is formed by a thin film transistor constituted of amorphous silicon or polysilicon on the same insulating substrate same as that for said readout transistor.
- 6. (Amended) A photoelectric converting
 0 apparatus according to claim 1 or 5, wherein said constant current source includes a constant current source transistor of which a gate is connected to a power supply for the constant current source.
- 7. A photoelectric converting apparatus
 15 according to claim 6, wherein said power supply for
 the constant current source provides the gate of said
 constant current source transistor with a voltage
 satisfying a relation Vds > Vgs Vth, in which Vds
 is a drain-source voltage, Vgs is a gate-source
 20 voltage and Vth is a threshold voltage.
 - 8. (Amended) A photoelectric converting apparatus according to any one of claims 1, 4 to 7, wherein said constant current source includes a constant current source transistor in which a gate and a source are mutually connected.
 - 9. (Amended) A photoelectric converting apparatus according to any one of claims 1, 4 to 8,

25

wherein said constant current source includes a constant current source transistor in which a gate and a source are connected through a resistor.

- 10. (Amended) A photoelectric converting apparatus according to any one of claims 1, 4 to 7, wherein at least one selected from a group consisting of said resetting transistor, said readout transistor, said selecting transistor and said constant current source is formed utilizing an amorphous silicon layer or a polysilicon layer.
 - 11. (Amended) A photoelectric converting apparatus according to any one of claims 1, 4 to 10, further comprising a phosphor layer which absorbs a radiation and emits a light of a wavelength region detectable by said photoelectric converting element.
 - 12. (Amended) A photoelectric converting apparatus according to any one of claims 1, 4 to 11, wherein said photoelectric converting element is constituted of a PIN photodiode or a MIS sensor.
- 20 13. (Amended) A photoelectric converting apparatus according to any one of claims 1, 4 to 12, wherein said photoelectric converting element is a direct photoelectric converting element which directly converts a radiation into a charge.
- 25 14. A photoelectric converting apparatus according to claim 13, wherein said direct photoelectric converting element is constituted of \a

material selected from a group consisting of amorphous selenium, gallium arsenide, gallium phosphide, lead iodide, mercury iodide, CdTe and CdZnTe.

- 15. (Amended) A photoelectric converting apparatus on an insulating supporting substrate comprising:
 - a two-dimensional array of a plurality of pixels each of which includes:
- .0 a photoelectric converting element;
 - a resetting transistor wherein one of a source and a drain is connected to said photoelectric converting element and the other of the source and the drain is connected to a resetting power source;
- a readout transistor wherein a gate is connected to said photoelectric converting element and one of a source and a drain is connected to a readout power source; and
 - a selecting transistor connected the other of the source and the drain of said readout transistor;
 - a plurality of common signal lines connected to said plural pixels; and
 - a constant current source connected to said common signal lines,
- wherein readout means is further connected to said common signal line is further provided, and said constant current source is provided at a

position on said common signal line spaced from said readout means rather than said plurality of pixels.

16. (Amended) An X-ray image pickup system comprising a photoelectric converting apparatus according to any one of claims 1 or 17, an X-ray generating apparatus and control means;

wherein said control means controls functions of the X-ray generating apparatus and the photoelectric converting apparatus thereby reading an X-ray image transmitted through an object.

17. (New) A photoelectric converting apparatus according to claim 15, wherein

said readout means includes an amplifier connected to said common signal line, and an analog multiplexer connected to said amplifier.

PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

OKABE, Masao

No.602, Fuji Bldg., 2-3, Marunouchi 3-chome, Chiyoda-ku, Tokyo 1000005 Japan

PCT

NOTIFICATIONOFTRANSMITTALOF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)
(PCT Rule 71.1)

Date of mailing

(day/month/year)

25.04.2006

Applicant's or agent's file reference 10003610WO01

IMPORTANT NOTIFICATION

International application No.

International filing date (day/month/year)

Priority date (day/month/year)

PCT/JP2004/017042

10.11.2004

19.11.2003

Applicant

CANON KABUSHIKI KAISHA

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international
 preliminary report on patentability and its annexes, if any, established on the international application.
- A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not
 of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any amexes to the international preliminary examination report, it is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and Industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed invention is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the IPEA/JP

Authorized officer

5P 9654

Japan Patent Office

3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan

Commissioner of the Patent Office
Telephone No. +81-3-3581-1101 Ext. 3581

Form PCT/IPEA/416 (January 2004)

See attentions on accompanying sheet

ATTENTIONS

1. Demand for copy of documents

Copy of the documents described in the international preliminary examination report and not described in the international search report.

An applicant can request the copy of these cited documents to the Japan Patent Office, however, National Center for Industrial Property Information and Training (Japan Patent Office building 2nd floor) handles inspection and copying of official gazettes and copying of other document etc.

[Contact and Reference]

National Center for Industrial Property Information and Training

〒100-0013

3-4-3 Kasumigaseki Chiyoda-ku Tokyo

(Japan Patent Office building 2nd floor)

(Official gazettes) Industrial Property Information Reference Department

TEL: 03-3581-1101 Ext. 3811,3812

(Others) Industrial Property Reference Materials Department

TEL: 03-3581-1101 Ext. 3831,3832,3833

Japan Patent Information Organization also services sales of the copy of these cited documents. Those who request copying of the cited documents should pay attention to the following points.

[Application Method]

- (1) As for Patent (Utility Model, Design) Gazette, the following points shall be defined clearly.
- O Types of patent, utility model, and design
- O Fiscal year and number of publication of application or publication of unexamined application (or patent number, registration number)
- O Necessary number of paper sheets
- (2) As for documents except for the gazette, the following points are required attention.
- O Be sure to attach the copy of the international preliminary examination report (which shall be returned).

[Application and Reference]

〒135-0016

4-1-7 Toyo Koto-ku, Tokyo

Sato Daiya Building

Foundation of Japan Patent Information Organization

Information Processing Department

Copy Service section

TEL: 03-3508-2313

- Note) The period for requesting the copy of the documents to Japanese Patent Office is set to 7 years from the international application date.
- 2. It is necessary to submit the copy of international application (except for cases of already transmitted from the International Bureau) and its prescribed translation, and to pay the national fee. Respective countries set different periods so as to be required attention. (See Treaty Article 22, Article 39, and Article 64 (2) (a) (i))

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty) (PCT Article 36 and Rule 70)



Applicant's or agent's file reference 10003610W001	FOR FURTHER AC	CTION	See Form PCT/IPEA/416				
International application No. PCT/JP2004/017042	International filing date (Priority date (day/month/year) 19.11.2003				
International Patent Classification (IPC) or national classification and IPC Int.Cl. H04N5/335 (2006.01), A61B6/00 (2006.01), G01T1/00 (2006.01), G01T1/20 (2006.01), H01L27/14 (2006.01), H01L27/146 (2006.01), H01L31/10 (2006.01), H04N5/32 (2006.01)							
Applicant CANON KABUSHIKI KA	ISHA						
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
 This REPORT consists of a total o This report is also accompanied by 		including this cover	snedt.				
·	heets, as follows:	`•					
sheets of the desc	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the						
sheets which super beyond the disclo	ersede earlier sheets, bu		y considers contain an amendment that goes as indicated in item 4 of Box No. I and the				
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b. a total of (indicate type an containing a sequence list) Box Relating to Sequence	ing and/or tables related	thereto, in electronic	form only, as indicated in the Supplemental ve Instructions).				
4. This report contains indications rela	ating to the following it	ems;					
Box No. I Basis of the r	eport						
Box No. II Priority							
Box No. III Non-establish	ment of opinion with re	egard to novelty, inve	ntive step and industrial applicability				
Box No. IV Lack of unity	of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
Box No. VI Certain docur	nents cited						
🔲 Box No. VII Certain defec	ts in the international ap	plication	•				
Box No. VIII Certain observations on the international application							
Date of submission of the demand		Date of completion of this report					
20.09.2005			13.04.2006				
Name and mailing address of the IPEA/JP		Authorized officer	5P 9654				
Japan Patent Office	;	Kenji Tokuda					
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo	100-8915, Japan	Telephone No. +81-3-3581-1101 Ext. 3581					

International application No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

PCT/JP2004/017042

Box No	». I	Basis of the report				
1. V	the intaction a transl	rd to the language, this report is based on: ternational application in the language in which slation of the international application in ation furnished for the purposes of: international search (Rules 12.3(a) and 23.1(b) publication of the international application (Ruist international preliminary examination (Rules 2.3).	nto	, which is the language of a		
fin	rnished to ad are no	d to the elements of the international applic to the receiving Office in response to an invita- t annexed to this report):	tion under Article 14 are referred to in t			
	the int	ernational application as originally filed/fur	mished			
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* If item	4 applie	s, some or all of those sheets may be marked "	superseded."	·		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/017042

Box	No. III	Non-establishm	ent of opinion v	vith regard to n	ovelty, inventive	step and industr	ial applicabi	ility
		whether the claimed not been examined		ars to be novel, t	o involve an inve	entive step (to be 1	ion obvious),	or to be industrially
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	prescribe Annex C-	gful opinion could ed time limit, furn bis of the Admini in a form and ma	ish such tables strative Instructi	in electronic for ons, and such tal	rm complying w	ith the technical	requirement	
		related to the nuc requirements prov		_			only, do not o	comply with the
	See Suppl	lemental Box for f	urther details.					